

## **Local Climatic Design Criteria**

## For Roanoke City, Roanoke County, The Town of Vinton, & Salem



	Residential 1 & 2 Family Dwelling Construction Design Parameters  GROUND WIND SEISMIC Subject to Damage from WINTER ICE BARRIE							
	GROUND SNOW LOAD	WIND DESIGN Speed (mph)	SEISMIC DESIGN CATEGORY	Weathering	Frost line depth	Termite	WINTER DESIGN TEMP	ICE BARRIER UNDERLAYMENT REQUIRED
Roanoke City	30 psf	115 <b>Note 1</b>	В	Severe	18"	Moderate to heavy	16º F	No
Roanoke County, Town of Vinton, & Salem	30 psf	115 <b>Note1</b>	В	Severe	24"	Moderate to heavy	16º F	No
		Com	nmercial Cons	truction Desig	ın Paramete	ers		
	GROUND	GROUND WIND E			arthquake Design Data			
	SNOW LOAD	DESIGN Speed (mph)		tral response n S <sub>S</sub> & S <sub>1</sub>	Risk Category		Frost line depth	Weathering
Roanoke City	30 psf	115 <b>Note 1</b>	seismicmap	s.org/ Note2	II		18"	Severe
Roanoke County, Town of Vinton, & Salem	30 psf	115 <b>Note 1</b>	seismicmaps.org/ Note 2		II		24"	Severe

Note 1: Wind speeds based on ASCE 7-10 or ASCE 7-16, go to hazards.atcouncil.org/#/, then enter address

Note 2: For site specific seismic design data, go to link and enter address

Flood Hazards					Additional Data		
	National Flood Insurance Program (NFIP) Entry	Effective Flood Study & Flood Insurance Rate Map (FIRM) Date	Community No.	•	Heating Degree Days - 2,365 Cooling Degree Days - 2,227 Climate Zone - 4		
Roanoke City	05/03/1974	09/28/2007	510130	•	Mean Annual Temperature - 58.1° F		
Roanoke County	09/13/1974	09/28/2007	510190	•	Air Freezing Index - 1500 or less Latitude: ~37.2° N, Longitude: ~79.9° W		
Town of Vinton	07/19/1974	09/28/2007	510131		Soil Class: SC, ML, CL, & Inorganic CL 60		
Salem	04/12/1974	09/28/2007	510141	•	1500 psf Shrink/Swell		

Contact information							
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This information is provided for use by builders and designers, and is in accordance with the following adopted code editions:

- 2018 Virginia Uniform Statewide Building Code (USBC)
- 2018 International Building Code (IBC)
- 2018 International Plumbing Code
- 2018 International Mechanical Code
- 2018 International Fuel Gas Code
- 2018 International Energy Conservation Code
- 2018 International Residential Code (IRC)

- 2018 International Existing Building Code
- 2018 International Fire Code
- 2009 ANSI A117.1 Accessible & Usable Buildings & Facilities
- 2016 NFPA 13 Standard for the Installation of Sprinklers
- 2016 NFPA 72 National Fire Alarm Code
- 2017 NFPA 70 National Electrical Code